Rating Conditions

20 °F Superheat

15 F Subcooling

95 °F Ambient Air Over

AIR CONDITIONING

Compressor Capacity

Blue Area Restrictions: 3-Phase Compressors Only

Compressor: ZP25K5E-PFV

HFC-410A COPELAND SCROLL® PFV

208/230-1-60

60 Hz Operation

In this chart, you will find the expected performance of the ZP25K5E-PFV compressor at a given condition (evaporating temperature and condensing temperature).

Evaporating Temperature °F (Sat. Dew Pt. Pressure, psig)

Condensing Temperature °F (Sat. Dew Pt. Pressure, psig)

		-10.0 (36)	**0.0** (48)	**10.0** (62)	**20.0** (78)	**30.0** (97)	**40.0** (118)	**45.0** (130)	**50.0** (143)	**55.0** (156)
150.0 (613)	C						18,000	20,300	22,800	25,400
	P						3,440	3,390	3,340	3,290
	A						15.0	14.7	14.5	14.3
	M						313	352	392	434
	E						5.2	6.0	6.8	7.7
	%						53.0	56.7	60.1	63.1
145.0 (576)	C						19,300	21,700	24,200	26,800
	P						3,190	3,140	3,100	3,060
	A						13.9	13.7	13.5	13.3
	M						321	358	397	438
	E						6.0	6.9	7.8	8.8
	%						56.1	59.6	62.7	65.3
140.0 (541)	C					16,000	20,500	22,900	25,500	28,200
	P					3,050	2,960	2,920	2,880	2,850
	A					13.3	12.9	12.7	12.6	12.4
	M					259	327	363	401	442
	E					5.3	6.9	7.9	8.9	9.9
	%					51.6	59.1	62.2	65.0	67.2
130.0 (477)	C				14,000	18,100	22,700	**25,200**	27,900	30,800
	P				2,700	2,620	2,550	**2,520**	2,490	2,470
	A				11.8	11.5	11.2	**11.1**	10.9	10.8
	M				213	272	336	**372**	409	448
	E				5.2	6.9	8.9	**10.0**	11.2	12.5
	%				50.0	57.9	64.2	**66.7**	68.7	70.1
120.0 (418)	C			11,900	15,700	19,900	24,700	27,400	30,200	33,200
	P			2,380	2,320	2,260	2,210	2,180	2,170	2,150
	A			10.4	10.2	10.0	9.7	9.6	9.6	9.5
	M			173	224	280	343	377	414	453
	E			5.0	6.8	8.8	11.2	12.5	13.9	15.4
	%			48.0	56.3	63.0	68.0	69.7	70.9	71.4
110.0 (365)	C		9,970	13,400	17,200	21,600	26,600	29,300	32,300	35,400
	P		2,090	2,050	2,000	1,950	1,920	1,900	1,890	1,880
	A		9.2	9.0	8.9	8.7	8.5	8.4	8.4	8.3
	M		138	182	231	286	347	381	418	456
	E		4.8	6.6	8.6	11.0	13.9	15.4	17.1	18.9
	%		45.4	54.1	61.3	66.8	70.3	71.1	71.3	70.7
100.0 (318)	C	8,120	11,200	14,700	18,600	23,100	28,300	31,200	**34,300**	37,600
	P	1,830	1,800	1,770	1,730	1,700	1,670	1,650	**1,640**	1,640
	A	8.1	8.0	7.9	7.8	7.6	7.5	7.4	**7.4**	7.3
	M	108	146	188	236	289	351	384	**421**	459
	E	4.4	6.2	8.3	10.7	13.6	17.0	18.8	**20.9**	23.0
	%	42.4	51.5	59.0	64.9	69.0	70.7	70.6	**69.6**	67.7
90.0 (274)	C	9,210	12,300	15,800	19,800	24,500	29,900	33,000	36,200	39,700
	P	1,580	1,560	1,540	1,510	1,480	1,450	1,440	1,430	1,420
	A	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.5	6.4
	M	116	152	193	239	292	353	387	423	462
	E	5.8	7.8	10.3	13.1	16.6	20.6	22.9	25.4	28.0
	%	48.5	56.2	62.4	67.0	69.4	69.2	67.8	65.4	61.9
80.0 (236)	C	10,200	13,200	16,800	21,000	25,800	31,500	34,700	38,200	41,900
	P	1,380	1,360	1,340	1,310	1,280	1,250	1,240	1,230	1,210
	A	6.2	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.6
	M	122	156	196	241	294	356	390	427	466
	E	7.4	9.7	12.5	16.0	20.2	25.2	28.1	31.2	34.5
	%	53.3	59.6	64.4	67.5	68.1	65.4	62.5	58.3	52.7

C: Capacity (Btu/hr), P: Power (W), A: Current (Amps), M: Mass Flow (lb/hr), E: EER (Btu/Wh), %: Isentropic Efficiency (%)

Nominal Performance Values (±5%) based on 72 hours run-in. Subject to change without notice. Current @ 230 V